QC ABSTRACT

NAME OF WORK: Improvements to Govt School building in Kodigehalli in Ward No.08

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	Block(400*200*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
7	Block(400*100*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
8	RCC(M25)	Compressive Strength(7days and 28days)	2 set /1-5 cum	6.6	4	4
9	RCC(M20)	Compressive Strength(7days and 28days)	3 set /31-100 cum	18.38	6	6
10	Plaster Sand	Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
		SIEVE ANALYSIS	One Test		1	1

Assistant Executive Engineer
Kodigehalli Sub Division
RBMP, Bangalore

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-22-01** **Date: 04-07-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	01-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.29	_
2	Finess by Air permeablity method (m^2/kg,Min)	298.6	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	265 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-04-22-01** **Date: 29-07-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	01-07-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-22-01** **Date: 04-07-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	01-07-21
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	198	198	1.3	98.7	90-100
3	20 mm	6238	6436	42.9	57.1	30-70
4	10 mm	5022	11458	76.4	23.6	10-35
5	4.75 mm	3215	14673	97.8	2.2	0-5
6	Pan	327	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-22-01** **Date: 04-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	14.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.42	–
5	Bulk Density(Compacted) (Kg/l)	1.47	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-04-22-01** **Date: 04-07-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	01-07-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	266	266	5.3	94.7	90-100
3	10 mm	2377	2643	52.9	47.1	25-55
4	4.75 mm	2088	4731	94.6	5.4	0-10
5	Pan	269	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-04-22-01** **Date: 04-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.27	_
7	Aggregate crushing Value(%)	23.9	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.5	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-22-01** **Date: 04-07-21**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 01-07-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 01-07-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-22-01** **Date: 04-07-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2022-04-22-01** **Date: 04-07-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-07-21
Sample Type	:	Indus
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test	:	02-07-21

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Indus	Fe500	8	0.392	528	652	20.0%	Satisfactory	Satisfactory
2	Indus	Fe500	10	0.615	542	672	20.0%	Satisfactory	Satisfactory
3	Indus	Fe500	12	0.886	562	689	20.0%	Satisfactory	Satisfactory
4	Sunvik	Fe500	16	1.582	576	695	19.0%	Satisfactory	Satisfactory

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BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 12/07/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	05/07/2021	12/07/2021	151.73 X 150.36 X 151.85	22814	8.764	518.7	22.7	23.4
2	Column Concrete	M25	05/07/2021	12/07/2021	149.82 X 151.71 X 149.89	22729	9.011	547.2	24.1	
3	Column Concrete	M25	05/07/2021	12/07/2021	149.47 X 151.64 X 150.88	22665	8.283	530.1	23.4	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 02/08/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 02/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	05/07/2021	02/08/2021	151.65 X 150.40 X 150.68	22808	8.918	662.9	29.1	28.8
2	Column Concrete	M25	05/07/2021	02/08/2021	150.98 X 151.79 X 150.17	22917	8.452	657.5	28.7	
3	Column Concrete	M25	05/07/2021	02/08/2021	149.49 X 151.57 X 150.86	22659	8.894	647.4	28.6	

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TEST REPORT FOR PLASTER SAND

Lab ID	:	**CP-2022-04-22-01** **Date: 13-09-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-09-21
Sample Type	:	Plaster Sand
Reference to BIS codes	:	IS: 383 : 2016 (Specification for Coarse and fine Aggregates) IS1542:1992 (Sand for Plaster - Specification) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	07-09-21
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 1542:1992
1	10 mm	0	0	0	100	100
2	4.75 mm	12	12	1.2	98.8	95-100
3	2.36 mm	25	37	3.7	96.3	95-100
4	1.18 mm	48	85	8.5	91.5	90-100
5	600 micron	100	185	18.5	81.5	80-100
6	300 micron	428	613	61.3	38.7	20-65
7	150 micron	301	914	91.4	8.6	0-15
8	Pan	86	1000	100	0	---

Assistant Executive Engineer
Kodigehalli Sub Division
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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-04-22-01** **Date: 13-09-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.53	–
2	Specific Gravity	2.51	–
3	Material finer than 75 micron(%)	8.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

Note:

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Kodigehalli Sub Division
BBMP, Bangalore

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Date: 10-04-21

Lab ID	:	**CP-2022-04-22-01**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-04-21
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	06-04-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	199	200	16039	33.181	2068.7	2048.4	Not less than 1800Kg/m^3
2	403	199	199	15959	32.264	2021.6		
3	401	203	202	16443	33.791	2055.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

Assistant Executive Engineer
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BBMP, Bangalore

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Lab ID : **CP-2022-04-22-01** **Date: 10-04-21**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	400	199	199	**Length : ± 5mm** **Breadth : ± 3mm** **Height : ± 3mm**
2	400	201	202	
3	401	203	199	
4	400	202	201	
5	402	200	202	
6	402	201	203	
7	400	203	203	
8	403	202	202	
9	404	202	201	
10	402	200	202	
11	402	202	202	
12	404	201	200	
13	399	200	201	
14	404	202	199	
15	401	200	203	
16	404	200	199	
17	403	202	203	
18	401	202	203	
19	403	199	203	
20	402	202	203	
Average of 20	**402**	**201**	**202**	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Lab ID : **CP-2022-04-22-01** **Date: 10-04-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	199	79686	449.3	5.6	5.6
2	400	201	80255	458.1	5.7	
3	401	203	81225	448.5	5.5	
4	400	202	80798	445.8	5.5	
5	402	200	80345	450.2	5.6	
6	402	201	80720	449.8	5.6	
7	400	203	81144	459.9	5.7	
8	403	202	81366	456.5	5.6	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Kodigehalli Sub Division
BBMP, Bangalore

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Quality Manager

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Format No: CP/TF/01

TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2022-04-22-01** **Date: 10-04-21**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-04-21
Sample Type/Size	:	Solid concrete blocks size (400X100X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	06-04-21

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	102	200	8201	16.426	2003.0	2026.3	Not less than 1800Kg/m^3
2	401	103	201	8302	17.165	2067.6		
3	400	101	199	8040	16.146	2008.3		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	18.91	17.99	4.89	4.25	Shall not be more than 10% by mass
2	19.57	18.74	4.28		
3	18.94	18.26	3.59		

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Lab ID : CP-2022-04-22-01 Date: 10-04-21

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	403	99	199	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	403	100	200	
3	403	100	199	
4	403	103	199	
5	401	101	201	
6	402	102	203	
7	401	101	202	
8	403	101	199	
9	400	102	199	
10	404	102	201	
11	400	101	203	
12	401	101	202	
13	402	101	201	
14	402	100	200	
15	402	100	201	
16	403	102	201	
17	400	102	201	
18	401	101	200	
19	404	99	200	
20	403	99	201	
Average of 20	**402**	**101**	**201**	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Lab ID : **CP-2022-04-22-01** **Date: 10-04-21**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	99	39618	162.3	4.1	4.1
2	403	100	40180	171.0	4.3	
3	403	100	40235	165.5	4.1	
4	403	103	41353	165.4	4.0	
5	401	101	40629	162.7	4.0	
6	402	102	41167	168.0	4.1	
7	401	101	40667	175.3	4.3	
8	403	101	40846	164.6	4.0	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

Note:

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 12/07/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-21

Customer ID : Column Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M25 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	05/07/2021	12/07/2021	149.60 X 149.50 X 151.14	22364	8.103	508.0	22.7	23.2
2	Column Concrete	M25	05/07/2021	12/07/2021	150.79 X 151.68 X 149.51	22872	8.544	557.4	24.4	
3	Column Concrete	M25	05/07/2021	12/07/2021	150.22 X 151.16 X 151.53	22707	8.261	513.3	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-04-22-01** **Date: 02/08/2021**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-07-21
Customer ID	:	Column Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	02/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Column Concrete	M25	05/07/2021	02/08/2021	150.89 X 151.13 X 150.45	22804	8.609	671.9	29.5	29.0
2	Column Concrete	M25	05/07/2021	02/08/2021	150.86 X 150.94 X 151.77	22771	8.105	654.4	28.7	
3	Column Concrete	M25	05/07/2021	02/08/2021	149.12 X 149.88 X 150.35	22350	8.364	645.0	28.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 30/07/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	30/07/2021	149.43 X 150.43 X 150.25	22479	8.246	430.4	19.1	18.9
2	Beam And RCC Slab	M20	23/07/2021	30/07/2021	151.84 X 149.89 X 149.50	22759	8.471	427.1	18.8	
3	Beam And RCC Slab	M20	23/07/2021	30/07/2021	149.86 X 150.74 X 150.40	22589	8.574	426.6	18.9	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 20/08/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	20/08/2021	150.00 X 149.96 X 151.21	22495	8.360	517.0	23.0	23.2
2	Beam And RCC Slab	M20	23/07/2021	20/08/2021	151.65 X 151.79 X 150.95	23019	8.737	553.7	24.1	
3	Beam And RCC Slab	M20	23/07/2021	20/08/2021	150.48 X 150.11 X 149.32	22588	8.745	511.2	22.6	

* The results obtained are satisfactory as per standard requirements.

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 30/07/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	30/07/2021	151.91 X 151.45 X 151.68	23008	8.674	440.4	19.1	19.3
2	Beam And RCC Slab	M20	23/07/2021	30/07/2021	150.16 X 151.10 X 150.56	22689	8.519	445.2	19.6	
3	Beam And RCC Slab	M20	23/07/2021	30/07/2021	149.80 X 149.02 X 149.05	22323	8.213	424.9	19.0	

* The results obtained are satisfactory as per standard requirements.

Note:

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All information furnished by Customer/Representative

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 20/08/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	20/08/2021	151.68 X 150.74 X 151.13	22864	8.276	531.6	23.3	23.4
2	Beam And RCC Slab	M20	23/07/2021	20/08/2021	151.92 X 150.98 X 150.72	22938	8.176	543.5	23.7	
3	Beam And RCC Slab	M20	23/07/2021	20/08/2021	151.39 X 149.39 X 149.05	22616	8.512	522.5	23.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-04-22-01** **Date: 30/07/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	30/07/2021	151.80 X 149.01 X 150.45	22621	9.071	433.5	19.2	19.4
2	Beam And RCC Slab	M20	23/07/2021	30/07/2021	150.94 X 149.69 X 150.33	22595	8.659	440.8	19.5	
3	Beam And RCC Slab	M20	23/07/2021	30/07/2021	149.75 X 151.73 X 151.55	22721	8.484	440.5	19.4	

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-04-22-01 **Date: 20/08/2021**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Govt School building in Kodigehalli in Ward No.08

Agency : Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092

Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : Beam And RCC Slab

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Beam And RCC Slab	M20	23/07/2021	20/08/2021	149.96 X 151.99 X 150.65	22793	8.273	520.3	22.8	23.4
2	Beam And RCC Slab	M20	23/07/2021	20/08/2021	150.37 X 149.10 X 150.40	22420	8.551	539.2	24.1	
3	Beam And RCC Slab	M20	23/07/2021	20/08/2021	150.27 X 149.86 X 151.31	22519	8.897	523.6	23.3	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 30/07/2021

Lab ID	:	**CP-2022-04-22-01**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Govt School building in Kodigehalli in Ward No.08
Agency	:	Sri. N N Sreenivasaiah, #2405,2nd, 2nd Cross, E Block, Opp. Basket Ball Court, Sahakaranagara, Bengaluru - 560092
Customer's Reference	:	BBMP/EE/BTP/WO/08/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-07-21
Customer ID	:	RCC M20 for Chejja
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/07/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC M20 for Chejja	M20	23/07/2021	30/07/2021	149.34 X 151.77 X 151.23	22665	9.099	412.7	18.2	18.6
2	RCC M20 for Chejja	M20	23/07/2021	30/07/2021	151.10 X 149.87 X 150.00	22646	8.893	428.9	18.9	
3	RCC M20 for Chejja	M20	23/07/2021	30/07/2021	150.38 X 149.16 X 149.29	22431	8.481	415.5	18.5	

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Customer's Reference : BBMP/EE/BTP/WO/08/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-07-21

Customer ID : RCC M20 for Chejja

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RCC M20 for Chejja	M20	23/07/2021	20/08/2021	151.12 X 151.11 X 149.50	22836	8.537	532.6	23.3	23.5
2	RCC M20 for Chejja	M20	23/07/2021	20/08/2021	149.56 X 151.94 X 151.40	22724	8.557	551.1	24.3	
3	RCC M20 for Chejja	M20	23/07/2021	20/08/2021	150.04 X 151.85 X 151.62	22784	8.720	520.9	22.9	

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